

Abstract of the Disclosure

The invention provides a device for measuring the pressure of a tire. The device comprises a microcontroller configured to calculate a target pressure, a pressure sensor coupled to the microcontroller for measuring an internal pressure of the tire, a first temperature sensor coupled to the microcontroller for measuring an internal temperature of the tire, a user input coupled to the microcontroller for inputting a recommended pressure for the tire, a second temperature sensor coupled to the microcontroller for measuring an ambient temperature, and, a display coupled to the microcontroller for indicating the internal pressure of the tire and the target pressure. The microcontroller converts the recommended pressure into the target pressure based on a ratio of the internal temperature in Kelvin to the ambient temperature in Kelvin, such that a user is able to inflate and deflate the tire until the display indicates that the internal pressure is equal to the target pressure.